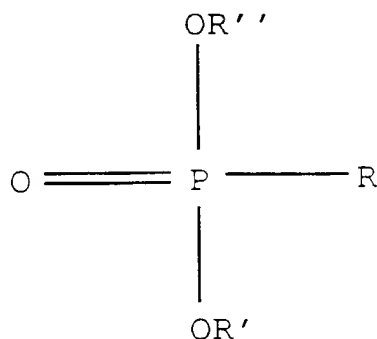


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CLAIMS

1. Additive for a drilling fluid, consisting of a compound in accordance with the formula

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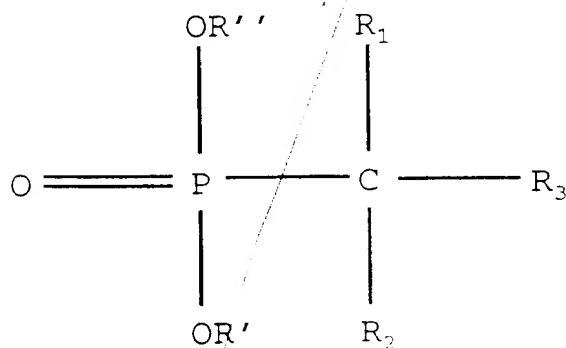
wherein R, R' and R'' are radicals exclusively containing H atoms or combinations of H, C, O or P atoms up to a maximum of 100 atoms.

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2. The additive of claim 1, wherein R, R' and R'' are radicals exclusively containing H atoms or combinations of H, C or O.

3. The additive of claim 1, consisting of a compound in accordance with the formula

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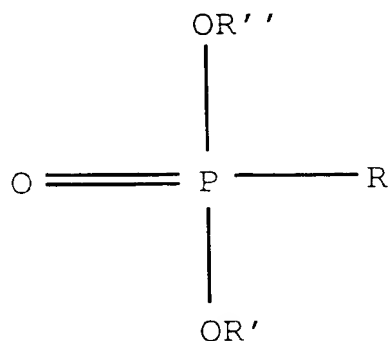


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wherein R₁, R₂ and R₃ are radicals exclusively containing H atoms or combinations of H, C, O or P atoms up to a maximum of 100 atoms.

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4. The additive of claim 3, wherein R_1 , R_2 and R_3 are radicals exclusively containing H atoms or combinations of H, C or O.
5. The additive of claim 1, based on a phosphor derivative of the succinic acid.
6. The additive of claim 1, based on a short chain phosphorylated hydrocarbon.
7. Drilling fluid comprising an additive in accordance with claim 1.
8. The drilling fluid of claim 5, comprising an additive in accordance with claim 1 in a concentration of up to about 10% weight by volume.
9. A drilling fluid comprising
 water as base component;
 a viscosifying agent to increase the viscosity of the fluid;
 a filtrate reducing agent;
 a weighting agent to adjust the density of the fluid; and
 an additive for a drilling fluid, consisting of a compound in accordance with the formula



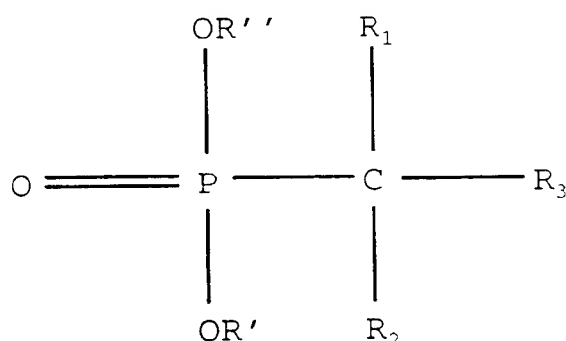
wherein R, R' and R'' are radicals exclusively containing H atoms or combinations of H, C, O or P atoms up to a maximum of 100 atoms.

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10. The drilling fluid of claim 9, wherein R, R' and R'' are radicals exclusively containing H atoms or combinations of H, C or O.

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11. The drilling fluid of claim 9, wherein the additive consists of a compound in accordance with the formula



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wherein R₁, R₂ and R₃ are radicals exclusively containing H atoms or combinations of H, C, O or P atoms up to a maximum of 100 atoms.

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12. The drilling fluid of claim 11, wherein R₁, R₂ and R₃ are radicals exclusively containing H atoms or combinations of H, C or O.

20 13. The drilling fluid of claim 9, further comprising a shale swelling inhibition agent.

14. The drilling fluid of claim 13, wherein the shale swelling inhibition agent comprises phosphate- or silicate-based compounds.

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15. ^{Method} ~~Method~~ of preventing accretion of cuttings in a borehole, said method comprising the step of adding to a drilling fluid

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an additive in accordance with claim 1 prior to or during a drilling operation.

16. The method of claim 15, wherein the additive is added in a concentration of up to about 10% weight by volume of the drilling fluid.

Art 7

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